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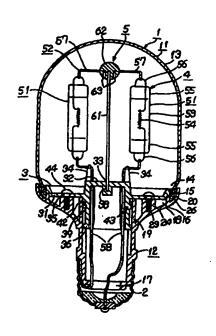
Int par lase (51) 国際特許分類6 (11) 国際公開番号 WO98/14733 F21S 5/00, H01K 1/34, F21V 3/00, 19/00 (43) 国際公開日 int pur Sate 1998年4月9日(09.04.98) (21) 国際出願番号 ハナ agp # PCT/JP97/03001 (22) 国際出願日 ハナ、 file 1997年8月28日(28.08.97) (74) 代理人 イグインス 弁理士 棒澤 襄, 外(KABASAWA, Joo et al.) 〒160 東京都新宿区新宿三丁目1番22号 (30) 優先権データ grand data 特願平8/258626 1996年9月30日(30.09.96) 日本信販迫分本舗ビル Tokyo, (JP) designated (81) 指定国 CA, US. 特願平8/342039 1996年12月20日(20.12.96) 特願平9/143831 1997年6月2日(02.06.97) 添付公開書類 (71) 出願人 (米国を除くすべての指定国について) 森山産業株式会社 *A Palicant* (Confany) 国際調査報告書 (MORIYAMA SANGYO KABUSHIKI KAISHA)[JP/JP] 〒142 東京都品川区中延二丁目5番10号 Tokyo, (JP) (72) 発明者;および いっしいといく (75) 発明者/出願人 (米国についてのみ) 加藤木真之(KATOUGI, Masayuki)[JP/JP] 〒158 東京都世田谷区奥沢一丁目5番4号 Tokyo, (JP) 森山秀男(MORIYAMA, Hideo)[JP/JP] 村田和昭(MURATA, Kazuaki)[JP/JP] 〒142 東京都品川区中延二丁目5番10号 森山ビル内 Tokyo,

(54)Title: LIGHT BULB DEVICE

(54)発明の名称 電球装置

(57) Abstract

A light bulb device where an envelope (1) is constituted by a globe (11) and a base (12). In the envelope an attachment (3) having a bulb mounting portion (32) and a supporting body erecting portion (33) is disposed. A baseless small bulb series connecting body (4) is disposed at the bulb mounting portion (32) of the attachment (3), and a supporting body (5) is disposed at the supporting body erecting portion (33). The baseless small bulb series connecting body (4) has a plurality of baseless small bulbs (51) and a conductor (52) which connect the baseless small bulbs (51) in series, whereby the baseless small bulbs are aggregated. The supporting body (5) supports the baseless small bulb series connecting body (4) in the envelope (1). Since the baseless small bulb connecting body (4) accommodated in the envelope (1) is supported by the support body (5), it is possible not only to improve the earthquake-resistance of the baseless small bulb series connecting body (4) but also to support the baseless small bulb series connecting body (4) at a predetermined position in the envelope (1).

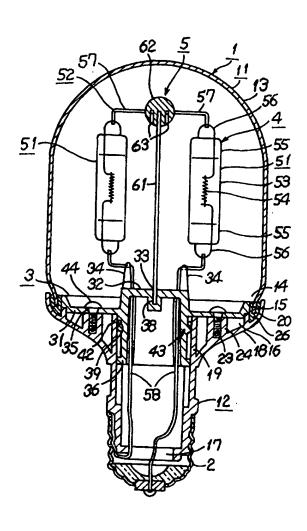


(57) 要約

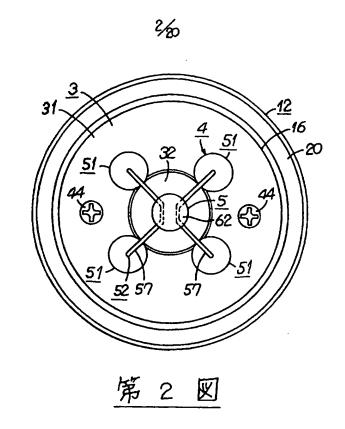
グローブ(11)と基体(12)とで外囲器(1)を形成す る。外囲器(1)内には、電球装着部(32)および支持 体起立部 (33)を有するアタッチメント(3) を配設す る。アタッチメント(3) の電球装着部(32)には無口 金小形電球直列接続体(4)を配設し、支持体起立部 (33)には支持体(5)を配設する。無口金小形電球直 列接続体(4) は、複数の無口金小形電球(51)を有す るとともにこれら無口金小形電球(51)を直列接続す る 導 体 (52)を 有 し 、 複 数 の 無 口 金 小 形 電 球 (51)を 集 合して構成する。支持体(5) は、外囲器(1) 内に無 口金小形電球直列接続体(4)を支持する。外囲器(1) 内に収納される無口金小形電球直列接続体(4)を 支持体(5)によって支持するため、無口金小形電球 直列接続体(4)の耐震性を向上できるとともに、無 口金小形電球直列接続体(4)を外囲器(1)内の所定 位置に支持できる。

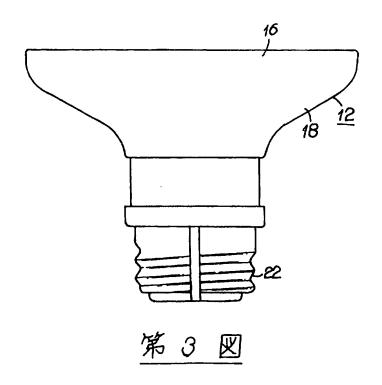
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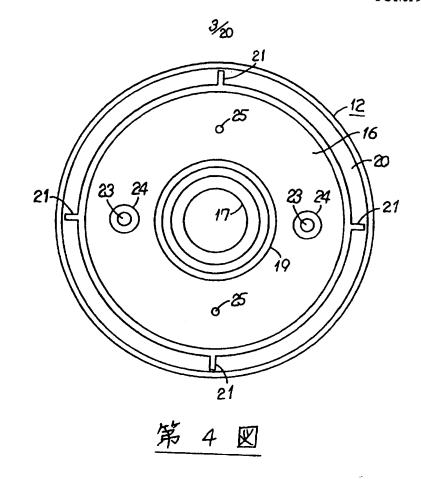
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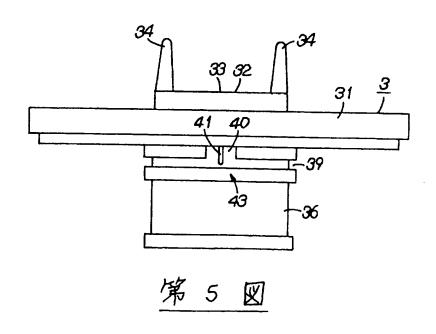


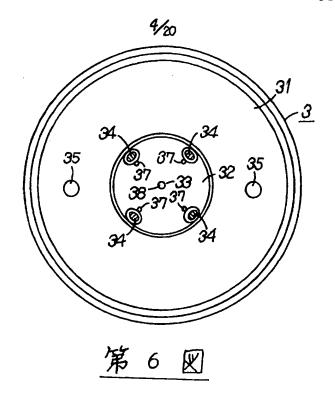
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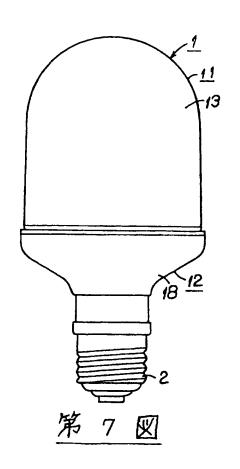




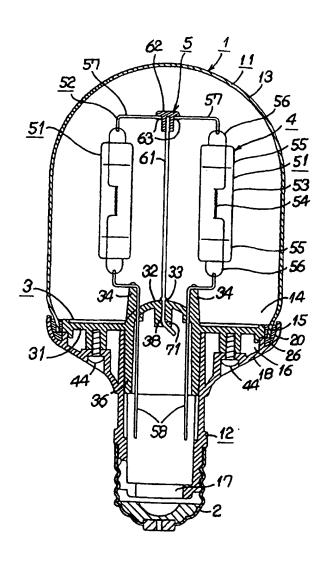






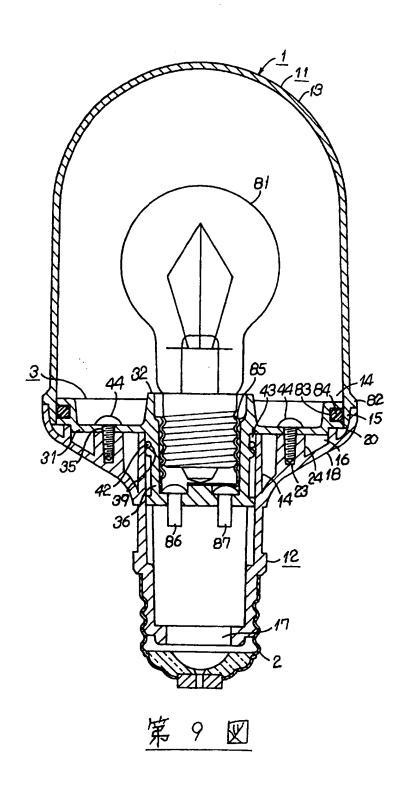


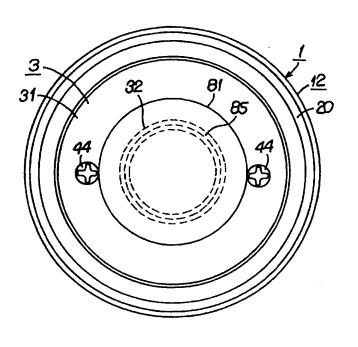
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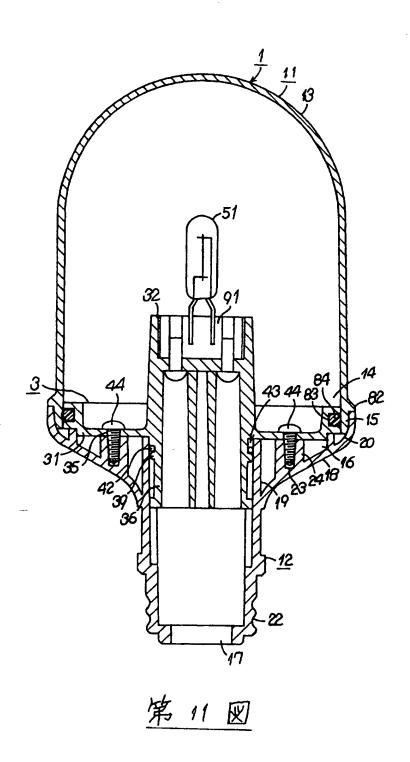
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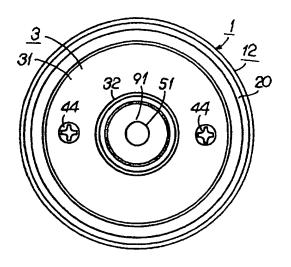




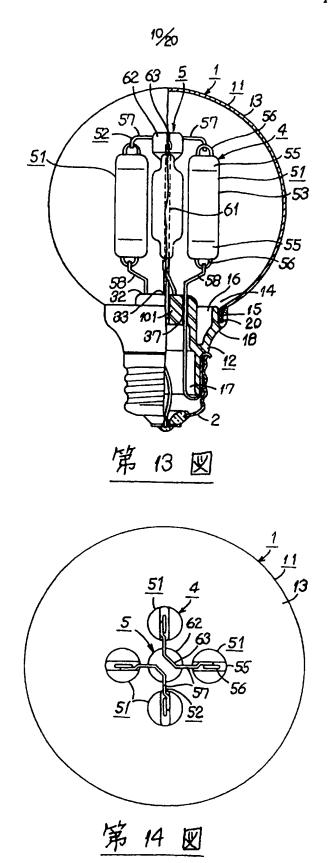
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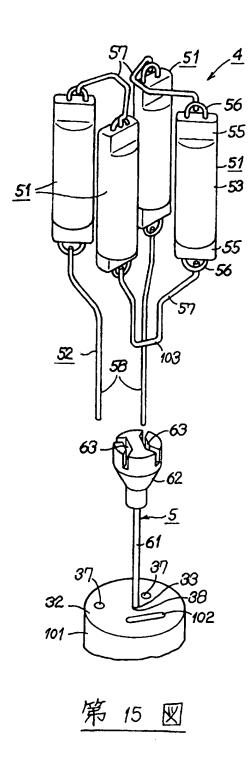


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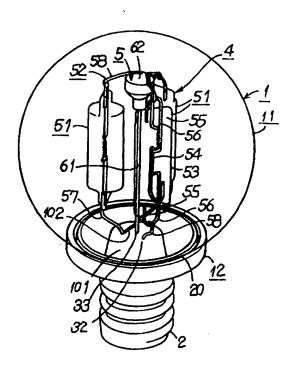


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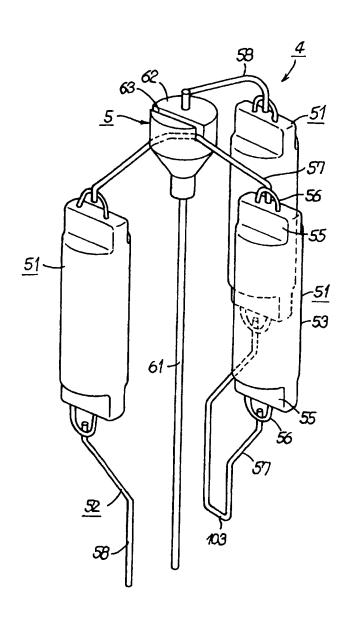




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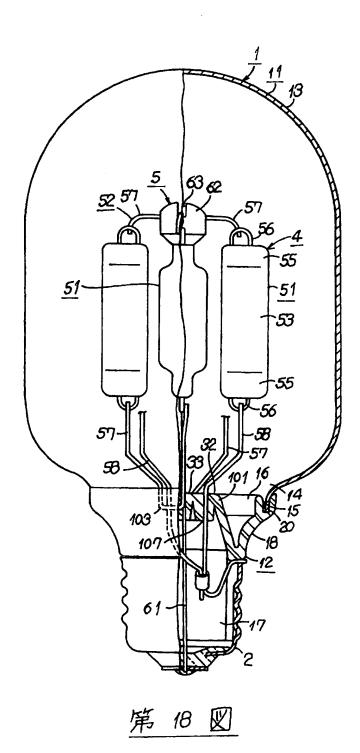


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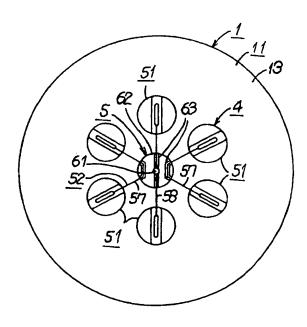


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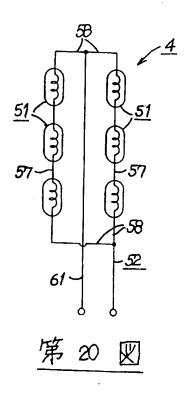
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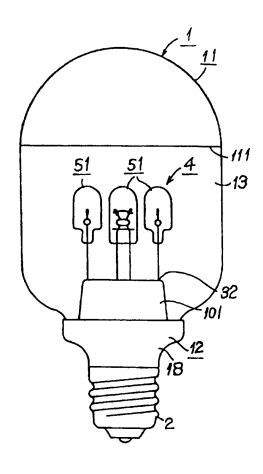




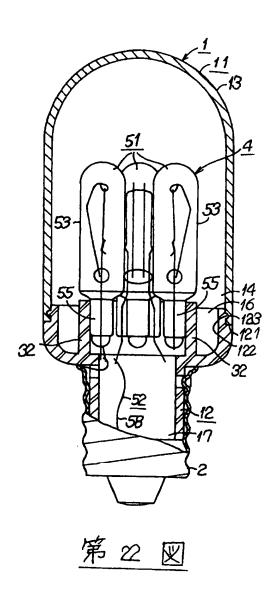
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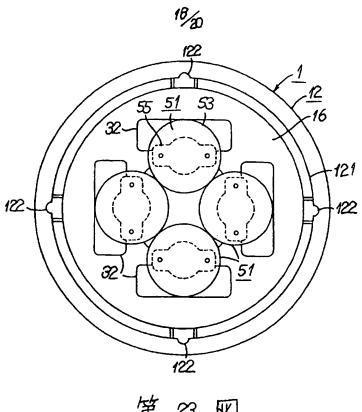


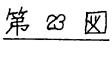
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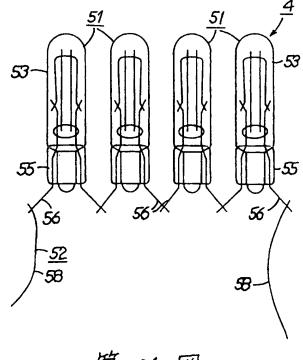


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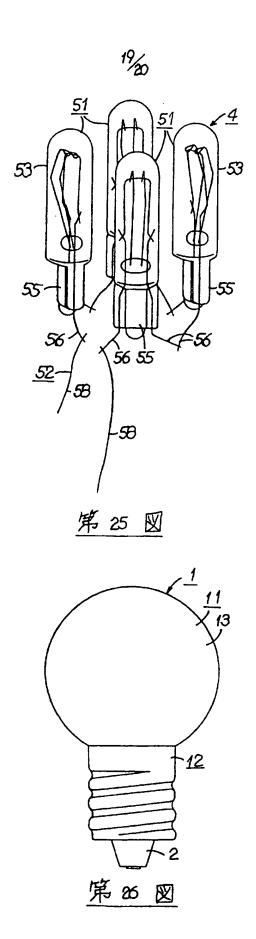




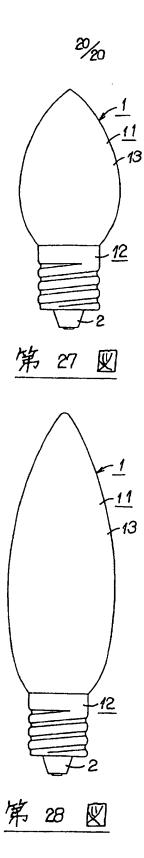




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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP97/03001

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Int. C16 F21S5/00, H01K1/34, F21V3/00). F21V19/00	
According to International Patent Classification (IPC) or to both national class	7 121719/00	
B. FIELDS SEARCHED	sification and IPC	
Minimum documentation searched (classification system followed by classification Int. C16 F2155/00 H0171/24	symbols)	
Int. C1 ⁶ F21S5/00, H01K1/34, F21V3/00 F21V3/04), F21V19/00, F21V31/00,	
Documentation searched other than minimum documentation to the extent that such Jitsuyo Shinan Koho 1926	documents are included in the fields searched	
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Electronic data base consulted during the international search (name of data base and	d, where practicable, search terms used)	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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A [Column 1, lines 2 to 6. column 2	lines 17 to $\begin{vmatrix} 11 & 10 \\ 4-6 & 9 \end{vmatrix}$, 10	
34; Fig. 1 (Family: none)	12-15	
A Microfilm of the specification and		
	3/1989	
Page 0, line 20 to page 7 line 2	Fig. 1	
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Y Column 4, lines 22 to 25	ITCDEUGLY ID, 1996 (IK NO OCK	
A Column 4, line 49 to column 5, line	11	
& CA, 2147017, A	10; Fig. 2 8, 10	
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Further documents are listed in the		
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International application No.

PCT/JP97/03001

egory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 60-74259, A (General Electric Co.), April 26, 1985 (26. 04. 85), Page 7, upper right column, lines 7 to 20; Figs. 3, 4 & US, 4547704, A	2, 9
A	Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 145615/1986 (Laid-open No. 52205/1988) (NEC Home Electronics Ltd.), April 8, 1988 (08. 04. 88), Page 4, line 20 to page 5, line 5; Fig. 1 (Family: none)	12 - 14